| Index of Claims | Application No.   | Applicant(s)          |  |  |  |  |  |  |
|-----------------|-------------------|-----------------------|--|--|--|--|--|--|
| F               | 10/759,464        | MILLS, CHRISTOPHER J. |  |  |  |  |  |  |
|                 | Examiner          | Art Unit              |  |  |  |  |  |  |
|                 | J. Woodrow Eldred | 3644                  |  |  |  |  |  |  |

| 1 | Rejected | [ | - | (Through numeral)<br>Cancelled |   | Non-Elected  | A | Appeal   |
|---|----------|---|---|--------------------------------|---|--------------|---|----------|
| = | Allowed  |   | + | Restricted                     | 1 | Interference | 0 | Objected |

|       | _            |          |          |              |          |  |          |         |          |          |            |                        |          |          |           |          |          |          |          |          |                    |          |     |               |            | <u> </u>   |          |              |          |           |          |           |          |          |
|-------|--------------|----------|----------|--------------|----------|--|----------|---------|----------|----------|------------|------------------------|----------|----------|-----------|----------|----------|----------|----------|----------|--------------------|----------|-----|---------------|------------|--|----------|--------------|----------|-----------|----------|-----------|----------|----------|
| Claim | _]           |          | Date     |              |          |  |          |         |          |          | Claim Date |                        |          |          |           |          |          |          |          |          | [                  | _Cla     | aim | Date          |            |  |          |              |          |           |          |           |          |          |
| Final |              | 6-22.84  |          |              |          |  |          |         |          |          |            | Final                  | Original |          |           |          |          |          |          |          |                    |          |     | Final         | Original   |  |          |              |          |           |          |           |          |          |
| 1     | ٦            | V        | _        | 1            | 1        | $\top$                                       | 十        | $\top$  | 1        |          | ĺ          | _                      | 51       | ╁        |           | $\vdash$ |          |          | -        | -        | Н                  | $\dashv$ | ŀ   |               | 101        | ╁─   |          | -            | ┢        | ┝         | $\vdash$ | Н         |          | $\vdash$ |
| 2     | 7            | フ        |          | Г            |          |  | $\top$   | 1       | $\top$   |          | ŀ          |                        | 52       | 1        | П         |          | П        |          |          |          | Н                  | ⊣        | ı   |               | 102        | ┪  | 1        | $\vdash$     | ┢        | H         | $\vdash$ | H         | Н        | <u></u>  |
| 3     |              | ķ        |          |              | L        | T  |          | Τ       | Т        |          | 1          |                        | 53       | П        |           |          |          |          |          |          |                    | $\neg$   | ı   |               | 103        | $\vdash$   | 1        | Г            |          | _         | $\vdash$ | П         | П        |          |
| 1 4   | _            |          |          |              | L        |  | L        |         |          |          |            |                        | 54       |          |           |          |          |          |          |          |                    |          | Ī   |               | 104        | Г  | Г        |              |          |           |          |           |          | Г        |
| 5     |              | 1        |          | L            | L        | $oxed{oldsymbol{oldsymbol{oldsymbol{eta}}}}$ |          |         |          |          |            |                        | 55       |          |           |          |          |          |          |          |                    |          | I   |               | 105        |  |          |              |          |           |          |           | П        | Г        |
|       |              | 4        |          | L            | ╄        | 1_   | 1        | ╀       | $\perp$  |          |            | L                      | 55       |          | Ш         |          |          |          |          | Ш        |                    | $\Box$   |     |               | 106        |  |          |              |          | Ш         |          |           |          |          |
| 7     |              | Ц        |          | L            | ļ.,      | ╄  | ╀        | ╄       | $\perp$  |          |            | <u> </u>               | 57       |          | Ш         |          |          | Щ        |          |          | Ш                  | 4        |     |               | 107        |  |          |              |          |           |          |           |          |          |
| 9     |              | 0        | <u>-</u> | -            | ╀        | ╁  | ╀        | +       | ╂        | -        |            | L                      | 58       | <u> </u> |           | _        |          |          | _        |          | $\sqcup$           | 4        | ļ   |               | 108        | 匚  |          | _            | L        | L         | _        |           |          | <u> </u> |
| 10    | _            | ٧        |          | $\vdash$     | ╄        | ╀  | ╁        | +       | ╀╌       | Н        |            | <u> </u>               | 59<br>60 | -        | Н         | $\dashv$ | -        | -        |          |          | $\vdash \vdash$    | 4        | ŀ   |               | 109        | ⊢  | _        |              |          | _         |          |           |          | _        |
|       |              | +        |          | $\vdash$     | ╁╌       | ╁  | ╫        | +       | +        | -        |            | <del></del>            | 61       | -        | Н         | $\dashv$ |          |          |          |          | Н                  | $\dashv$ | ŀ   | <u> </u>      | 110        |  |          | <u> </u>     | Н        | <u> </u>  | -        | Н         | $\vdash$ | H        |
|       |              | -H       |          | -            | ╁╌       | ╁  | +-       | ╁       | +        |          |            | <del></del>            | 62       | H        | Н         | -        | $\dashv$ | $\vdash$ |          |          | ${oldsymbol{ert}}$ | $\dashv$ | ŀ   | $\dashv$      | 111        | -  | -        | <del> </del> | H        | Η,        | -        | Н         | -        | -        |
| 1     |              | +        | _        | Н            | t        | †  | ╁        | +       | +        |          |            | <b> </b>               | 63       | $\vdash$ | $\vdash$  | $\dashv$ | $\dashv$ | Н        | -        | Н        | Н                  | $\dashv$ | ŀ   |               | 113        |  | $\vdash$ | -            | $\vdash$ | H         | H        | Н         | -1       | -        |
| 14    |              | 1        |          | Г            | 1        | T  | T        | Τ       |          | $\sqcap$ |            |                        | 64       |          | H         | $\neg$   | $\dashv$ | $\neg$   | $\neg$   | $\dashv$ | Н                  | $\dashv$ | ŀ   | $\dashv$      | 114        | <del>                                     </del> | H        | $\vdash$     | Н        | Н         | $\vdash$ | $\vdash$  | $\dashv$ | H        |
| 15    |              |          |          |              |          | 1  |          |         | Т        | П        |            |                        | 65       | П        | П         |          | $\neg$   |          | コ        |          | $\Box$             | $\neg$   | ı   |               | 115        | $\vdash$   |          | _            |          |           | $\vdash$ | $\Box$    | $\neg$   | Г        |
| 16    |              | T        |          |              | Г        | Г  |          |         |          |          |            |                        | 66       |          |           |          |          |          |          |          |                    |          | 1   |               | 116        |  |          |              |          |           | Г        | П         | $\dashv$ | Г        |
| 17    | _            | Ш        |          |              |          |  |          | L       |          |          |            |                        | 67       |          |           |          |          |          |          |          |                    |          |     |               | 117        |  | Г        |              |          |           |          |           | $\Box$   | Г        |
| 18    |              | Ш        |          | _            | _        | 1  | _        | $\perp$ | L        | Ш        |            |                        | 68       |          |           |          |          | $\Box$   |          |          |                    |          |     |               | 118        |  |          |              |          |           |          |           |          |          |
| ير    | Q.           | -11      | _        | _            | 1        | Ļ  | ╀        | ↓       | Ļ        | Ц        |            | L                      | 69       |          | Ш         |          |          | _        |          | _        | Ш                  |          |     |               | 119        |  |          |              |          |           |          |           | $\Box$   |          |
| 20    |              | Щ        | _        | <u> </u>     | 1        | ╀  | ╄        | +       | Ļ.,      |          |            | <u> </u>               | 70       | _        |           | _        |          |          |          | _        | Ц                  |          | ļ   |               | 120        |  | Ц        |              |          |           |          |           | $\Box$   |          |
| 2     |              | -11      |          | L            | ╄        | ┞  | ╁        | ╄       | ╀-       | Ш        |            | L                      | 71       | _        | $\square$ | _        | _        | _        | _        | _        | Ш                  | 4        | -   |               | 121        | Ш  |          | Ш            |          |           |          |           |          | _        |
| 2     |              | -11      |          | -            | ₩        | <del> </del>                                 | ┼        | +       | ١        | Н        |            | $\vdash$               | 72       | _        | $\vdash$  | -        |          | _        |          | _        | $\sqcup$           | _        | ŀ   |               | 122        | _  |          |              |          |           |          |           | _        | _        |
| 23    |              | -11      |          | -            | ╄        | ╀  | +-       | +       | ╀-       | Н        |            | <u> </u>               | 73       | L        | Н         | _        | -        | _        | -        | -        |                    | 4        | -   |               | 123        | $ldsymbol{ldsymbol{eta}}$                        |          | Щ            |          |           |          | _         | _        | _        |
| 24    |              | -/-      |          | ├            | ╁        | ╂  | ╁        | ╂       | +        | -        |            | -                      | 74<br>75 |          | $\dashv$  |          | -1       | $\dashv$ | $\dashv$ | $\dashv$ | -                  | $\dashv$ | ŀ   |               | 124        | -  | H        | _            |          | _         | Ь.       | $\Box$    | -1       | -        |
| 26    | <del>.</del> | V)       | -        | H            | ⊢        | ╫  | ╁╌       | ╁╴      | ╁        |          |            | $\vdash$               | 76       | -        |           |          |          | $\dashv$ | $\dashv$ | $\dashv$ | Н                  | $\dashv$ | ŀ   |               | 125<br>126 | Н  | $\vdash$ | H            |          |           |          |           | $\dashv$ |          |
| 27    | 7            | 3/       | _        | <del> </del> | $\vdash$ | +  | +        | +-      | ╁        | Н        |            |                        | 77       | -        | $\vdash$  | -        | -1       | -        | $\dashv$ | $\dashv$ | $\dashv$           | $\dashv$ | ŀ   |               | 127        | -  | Н        | Н            |          | -         | Н        | -         | $\dashv$ | _        |
| 28    |              | ~        | _        | Н            | $\vdash$ | $\vdash$                                     | $\vdash$ | +-      | +        |          |            | $\vdash$               | 78       |          |           | _        | 1        | -        | ᅱ        | -        | $\dashv$           | $\dashv$ | ŀ   | 1             | 128        | _  | Н        | $\vdash$     |          |           | -        |           | $\dashv$ | _        |
| 29    |              | _        | _        | _            |          | 1  | ✝        | T       | 1        | Н        |            |                        | 79       |          |           | 一        | 一        | _        | $\dashv$ |          | $\dashv$           | $\dashv$ | ŀ   |               | 129        |  | Н        |              |          |           |          |           |          |          |
| 30    |              |          |          |              |          | 1  | 1        | T       |          |          |            |                        | 80       |          |           | $\neg$   | ヿ        | $\neg$   | 一        | ヿ        |                    | $\neg$   | ı   | $\neg$        | 130        | _  | М        |              |          |           |          | $\exists$ | ┪        | _        |
| 31    | 1            |          |          |              |          | П  |          |         |          |          |            |                        | 81       |          |           | $\neg$   | $\neg$   |          | $\neg$   | $\neg$   | $\Box$             | ╗        | Ī   | $\neg$        | 131        |  |          |              |          |           |          |           | $\neg$   | _        |
| 32    |              | $\Box$   |          | Ľ            | $\Box$   |  |          | $\perp$ | $\Box$   |          |            |                        | 82       |          |           |          |          |          |          |          |                    |          |     |               | 132        |  |          |              |          |           |          |           | $\Box$   |          |
| 33    |              |          |          | _            | ╙        | ot   | $\perp$  | ↓_      | <u> </u> | Ш        |            |                        | 83       | Ш        | Ш         |          | _]       |          | $\Box$   |          |                    | _]       |     |               | 133        |  |          |              |          |           |          |           |          | _        |
| 34    |              | _        | _        | L            | ┡        | ₩  | 1        | $\perp$ | 1        |          |            |                        | 84       | Ш        |           | _        | _        |          | _        | _        | $\sqcup$           | _        |     | I             | 134        |  | Ш        |              |          |           |          | _         | [        | _        |
| 35    |              | _        |          | -            | ├        | -  | 1        | ┼       |          | Н        |            | $\vdash$               | 85       | Н        | $\sqcup$  |          | _        | 4        | _        | _        | Щ                  | $\dashv$ | -   |               | 135        | Щ  | Ш        | Щ            | _        |           |          |           | _        |          |
| 36    |              |          | _        | -            | ┼        | ₩  | ╀        | ╀       | $\vdash$ | $\vdash$ |            |                        | 86       | $\vdash$ | $\dashv$  |          | -        | -        | _        | _        | $\dashv$           | 4        | 1   |               | 136        |  | Щ        |              |          |           |          |           | _        |          |
| 37    |              |          | _        | -            | ╁        | +  | $\vdash$ | +-      | -        |          |            |                        | 87       | $\vdash$ |           |          | 4        | ᅱ        | -        | 4        |                    | $\dashv$ | -   |               | 137        | Щ  | Н        | Щ            | _        | Щ         | Ц        | _         |          |          |
| 39    |              | $\dashv$ | -        | -            | +-       | +-   | +        | +       | +-       | $\vdash$ |            | $\vdash\vdash\vdash$   | 88<br>89 | $\vdash$ | $\dashv$  |          | $\dashv$ | -        | -        | -{       | $\dashv$           | $\dashv$ | -   |               | 138        | Н  | Н        | _            | -        | 4         | Н        |           |          | _        |
| 40    |              |          |          | H            | ╁        | +-   | +        | +-      | 1        | $\vdash$ |            | $\vdash \vdash \vdash$ | 90       | $\vdash$ | $\dashv$  |          | 4        |          | $\dashv$ |          | -                  | $\dashv$ | +   | $\rightarrow$ | 139<br>140 | Н  | Н        |              | $\dashv$ | -         | Н        |           | $\dashv$ |          |
| 41    | _            |          | -        | -            | H        | 1-   | +        | +       | 1        | $\vdash$ |            | $\vdash \vdash$        | 91       | $\vdash$ | $\dashv$  | $\dashv$ | ᅱ        | ┪        | ᆉ        | ┥        | -                  | $\dashv$ | -   | - 1           | 141        | Н  | $\vdash$ |              | $\dashv$ | $\dashv$  | Н        |           | $\dashv$ | _        |
| 42    |              |          | ⊣        |              | $\vdash$ | 1  | +-       | +-      | $\vdash$ | $\vdash$ |            | $\vdash$               | 92       | Н        | -         | -+       | -        | -1       | $\dashv$ | -        | +                  | $\dashv$ | H   | $\dashv$      | 142        | $\vdash$   | Н        | $\vdash$     | $\dashv$ |           | -        | $\dashv$  | $\dashv$ | -        |
| 4     |              | 寸        |          | _            |          | $\vdash$                                     |          | T       | 1        | H        |            | $\vdash \vdash$        | 93       | $\vdash$ |           | -        | $\dashv$ |          | ᅥ        | ᅥ        | 十                  | $\dashv$ | ŀ   | -+            | 143        | $\dashv$   | $\vdash$ | $\vdash$     |          | $\dashv$  | $\dashv$ | -1        | $\dashv$ | _        |
| 44    | _            |          |          |              | П        | Т  |          | T       | $\vdash$ | М        |            |                        | 94       | М        | $\dashv$  | 寸        | 7        |          | -        | $\dashv$ | 7                  | $\dashv$ | t   |               | 144        | H  | $\vdash$ | $\dashv$     | $\dashv$ | $\dashv$  | $\dashv$ | 7         | $\dashv$ | _        |
| 45    | 5            | 寸        | _        | _            | Г        | 1  | Τ        | 1       | $\top$   | Гİ       |            |                        | 95       | П        |           | -1       | $\dashv$ | ᅱ        |          | ┪        | ヿ                  | $\dashv$ | h   | $\dashv$      | 145        | $\dashv$   |          | $\dashv$     | $\dashv$ | $\dashv$  | $\dashv$ | -1        | -1       | _        |
| 46    | 3            |          |          |              |          |  |          | $L^-$   |          |          |            |                        | 96       |          |           | 寸        |          |          |          | ╗        | $\neg$             | 7        | Ì   |               | 146        | П  | $\Box$   | П            | 7        | $\dashv$  |          | -1        | 7        | _        |
| 47    | $\Box$       |          |          |              |          | $\Gamma$                                     |          |         |          |          |            |                        | 97       |          |           |          |          |          | _        | 一        |                    |          | ı   |               | 147        | П  |          | П            | $\dashv$ | _         |          |           | _        | _        |
| 48    |              |          |          |              |          |  |          |         |          |          |            |                        | 93       |          |           |          |          |          |          |          |                    |          |     |               | 148        |  |          |              |          | $\exists$ |          | ╛         | コ        | _        |
| 49    | 2 [          |          |          |              |          |  |          |         |          |          |            |                        | 99       |          | $\Box$    |          | Ι        | $\Box$   | $\Box$   | $\Box$   | $\Box$             |          |     |               | 149        |  |          |              |          |           |          | $\Box$    | ╗        |          |
| 50    | ) [          |          |          |              | 1        | <u> </u>                                     | <u>L</u> | 1       | 1        | Ш        |            | l                      | 100      | ΙĪ       | I         | I        | I        | I        |          |          | $\neg$             |          | ſ   | T             | 150        |  |          |              |          |           |          | $\neg$    | $\neg$   |          |